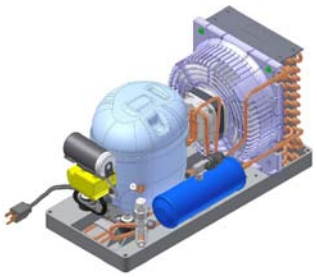
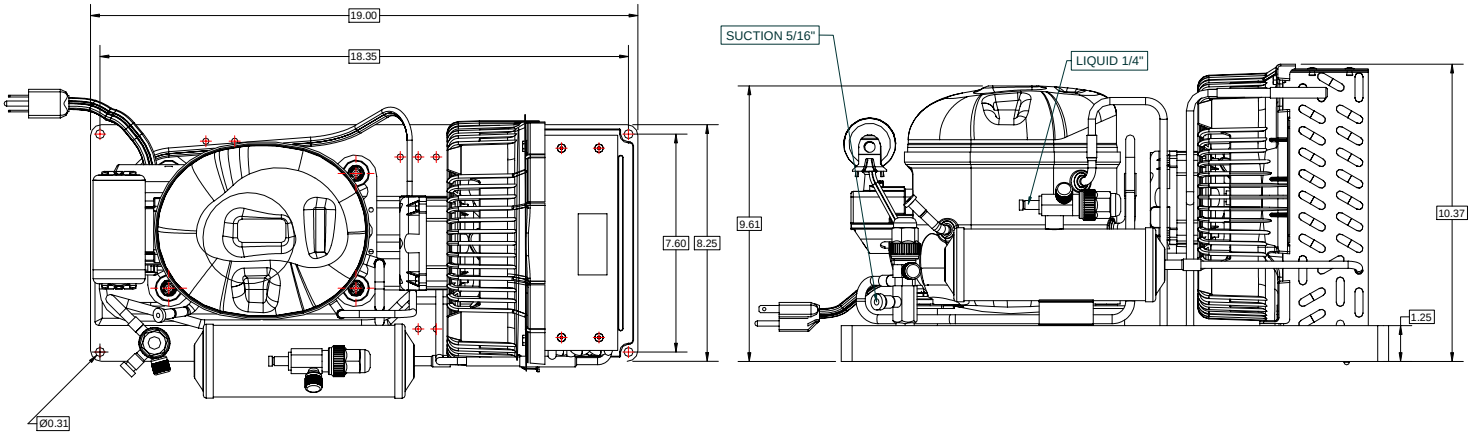
TECUMSEH HERMETIC CONDENSING UNIT

Model	**AE4440Z-AA1AGL, GK, GB, GC**
BOM	**33Y364-2, -3, -4, -5**
Air Cooled	**1/3 HP**
Application	**High/Commercial Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**115-60-1**





Model	Dimensions, inches (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross wt.
	L	W	H	Suction	Liquid	90% @90°F	CFM	Oz.	Lbs (kg)
AE4440Z-AA1AGL	19 (483)	8.7 (221)	10.3 (262)	5/16 Sweat	1/4 Sweat	n/a	242	16	39.6 (18)
AE4440Z-AA1AGK									
AE4440Z-AA1AGB		9.7 (246)				1.79			40.2 (18.2)
AE4440Z-AA1AGC				5/16 Valve Sweat	1/4 Valve Sweat	2.12			40.8 (18.5)

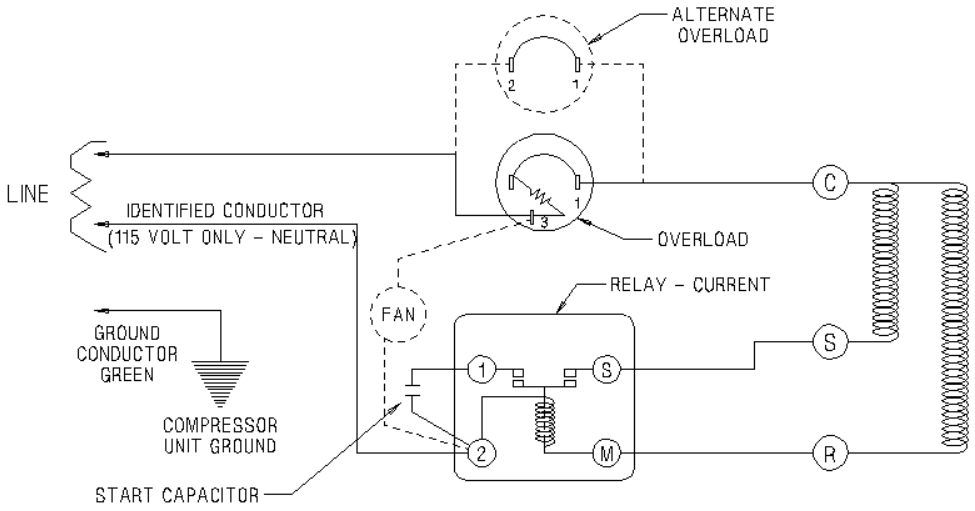
Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures											
		80°F			90°F			100°F			110°F		
°F	Psig	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.9	1270	310	98	1120	310	107	980	310	116	850	320	124
-5	28.2	1420	330	101	1260	340	109	1110	340	118	960	340	126
0	32.8	1600	350	103	1420	360	112	1240	360	120	1080	370	128
5	37.9	1780	370	106	1580	380	114	1390	390	123	1200	400	131
10	42.4	1970	400	109	1750	400	117	1540	410	125	1330	420	133
15	48.2	2160	420	112	1920	430	120	1690	440	128	1460	450	136
20	**54.5**	**2350**	**440**	**115**	**2090**	**450**	**123**	**1840**	**460**	**131**	**1590**	**470**	**138**
25	61.2	2720	470	118	2440	490	126	2160	500	134	1890	520	141
30	68.4	2930	500	121	2620	510	129	2320	530	136	2030	540	144
35	76.1	3140	520	125	2810	540	132	2480	550	139	2160	570	146
40	84.4	3340	540	128	2980	560	135	2630	580	142	2290	600	149

Performance @ 60 Hz, Return gas 40°F below 20°F Evaporator and 65°F above 20°F evaporator, SubCooling 5°F

Parts/Specifications

Unit BOM	**33Y364-2**	Condenser	50734-G04
Unit MODEL	**AE4440Z-AA1AGL**	Fan Motor	NUT6B09PUN301
		Fan Motor RLA	0.58
Refrigeration RANGE	-10°F to 45°F	Fan Blade	4VEA010
Design Pressure Low	181	Shroud	
Design Pressure High	450	Fan Guard	116-003P
Volts - HZ - Ph	115-60-1		
Voltage Range	126.5 to 103.5	Replacement Fan Motor	9W115
Min. Circuit Ampacity	8.46	F. M., blade, guard assy	YFBG-109
Max. Fuse Size	15	F. M., blade, guard, shroud assy	
Compressor MODEL	AE4440Z-AA1A		
Compressor BOM	AE-1168-E	**Unit BOM**	**33Y364-3**
Compressor LRA	36	**Unit MODEL**	**AE4440Z-AA1AGK**
Compressor RLA	6.3	Power Cord	85106-10
		Unit Drawing	DGBU-062
OverLoad	830-10116		
Replacement Overload		**Unit BOM**	**33Y364-4**
Relay	820-10078	**Unit MODEL**	**AE4440Z-AA1AGB**
Replacement Relay		Receiver	51085-1H
Run Capacitor		Unit Drawing	DGBU-062R
Run Capacitor Rating			
Start Capacitor	85PS165C99	**Unit BOM**	**33Y364-5**
Start Capacitor Rating	270-324 MFD 165V	**Unit MODEL**	**AE4440Z-AA1AGC**
		Receiver w/Liquid Valve	
Electrical Diagram	DEAE-10	Suction Valve	56580-1
Unit Drawing	DGBU-062	Unit Drawing	DGBU-062V



115 OR 230 VOLT - SCHEMATIC WIRING DIAGRAM - CSIR

REF. DWG. MD472-1

WARNING - WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.

DEAE-10